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Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

west virginia department of environmental protection

G70-D GENERAL PERMIT ENGINEERING EVALUATION

PREVENTION AND CONTROL OF AIR POLLUTION IN REGARD TO THE CONSTRUCTION, MODIFICATION, RELOCATION, ADMINISTRATIVE UPDATE AND OPERATION OF NATURAL GAS PRODUCTION FACILITIES

LOCATED AT 1	THE WELL SITE
APPLICATION NO.: G70-D155C	FACILITY ID: 085-00052
☐ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION	CLASS I ADMINISTRATIVE UPDATE CLASS II ADMINISTRATIVE UPDATE
BACKGROUND	INFORMATION
Name of Applicant (as registered with the WV Sec. LLC	retary of State's Office): CNX Gas Company,
Federal Employer ID No. (FEIN): 550738862	
Applicant's Mailing Address: 1000 Consol Energ	y Drive
City: Canonsburg State: PA	ZIP Code: 15317
Facility Name: Pennsboro 2 (PEN2) Production	Facility
Operating Site Physical Address: Off C/R 6/3 If none available, list road, city or town and zip of	facility.
City: Pennsboro Zip Code: 264	
Latitude & Longitude Coordinates (NAD83, Decim Latitude: 39.33666 Longitude: -80.01259	al Degrees to 5 digits):
SIC Code: 1311 NAICS Code: 211111	Date Application Received: March 1, 2017
Fee Amount: \$1,500.00	Date Fee Received: March 16, 2017
Applicant Ad Date: February 28, 2017	Newspaper: The Herald Record
Date Application Complete: APRIL 6, 2017	Due Date of Final Action: May 23, 2017
Engineer Assigned: Roy F. Kees, P.E.	
Description of Permitting Action: CNX Gas Company LLC (CNX) is proposing to i modify the heat duty rating of the existing NOV MMBtu/hr to 26.2 MMBtu/hr. Additionally, CNX i existing wells that were previously drilled at the	Flare at the PEN2 wellpad from 19.7 is proposing to complete/stimulate the five (5)

PROCESS DESCRIPTION

The following process description was taken from Registration Application G70-D155C: CNX Gas Company LLC (CNX) is submitting this Class II General Permit (G70-D) application for the following proposed modifications at the Pennsboro 2 wellpad (PEN2):

- -Complete and stimulate five (5) of the previously drilled wells for additional gas production
- -Modify the existing LEED vapor destruction unit's (8S-COMB) maximum design heat input (MDHI) from 10.4 MMBtu/hr to 8.69 MMBtu/hr (140 MSCFD based on 1500 Btu/scf gas). Vendor specification sheet are submitted herein;
- -Update the condensate storage tank count in current permit to four (4) 400 barrel tanks (1S-TK1-4);
- -Update the produced water storage tank count in the current permit to four (4) 400 barrel tanks (2S-TK5-8);
- -Install one (1) additional thermoelectric generator;
- -Install one (1) 30 bbl drip fluid tank (15S-TK9), which will be controlled by the existing vapor combustion unit (8S-COMB1);
- Modify the existing NOV flare's (12S-FLARE) maximum design heat input (MDHI) rating from 19.7 MMBtu/hr (based on 1200 btu/scf gas from the low pressure separator [LPS]) to 26.2 MMBtu/hr (based on 1600 btu/scf gas from the LPS).

The PEN2 wellpad is a natural gas production facility that consists of twelve (12) wells. Incoming gas/liquid stream from the underground wells will pass through the gas production units (4S-GPU 1-12) which will raise/maintain temperature and then pass through the high pressure (3 phase) separators, which will separate gas (natural gas from the separator is sent to the sales line) from liquids (condensate and produced water). The produced water from the separator is transferred to the produced water storage tanks (2S-TK1-4).

The condensate fluids stream will then pass through the line heater (11S-LH) and low pressure separator, where it is heated (5S-LP) to volatilize (flash off) lighter hydrocarbons and separate condensate in the liquid stream. The flash gas from the low pressure separator is recovered by a flash gas compressor, which utilizes a natural gas fired compressor engine (3S-ENG1) to raise the pressure of the flash gas and then route it back to the sales line. During VRU downtime, the flash gas from the low pressure separator will be routed to a liquid knock out vessel, which separates additional produced fluids (produced fluids is then transferred to the drip fluid tank [15S-TK9]) from the flash gas, and then sent to the flare (12SFLARE) for destruction. The condensate from the low pressure separator is then transferred to the condensate storage tanks (1S-TK5-8).

Working, breathing and flash emissions from the condensate, drip and produced water storage tanks are controlled by the vapor recovery unit, which is powered by a natural gas fired engine (3S-ENG2). When the VRU is inoperative, vapors from the storage vessels are routed to vapor combustor unit (8S-COMB1) for emissions control. Condensate and produced water are transported off-site via tanker truck (6S-TL1, 7S-TL2 and 16S-TL3).

SITE INSPECTION

Site Inspection Date: May 5, 2015

Site Inspection Conducted By: James Robertson

Results of Site Inspection: The area in general is remote with a few scattered houses nearby. There has been no site development so I could not find an obvious access point. However, the well pad will eventually be on a hill overlooking CR 6/1, Bonds Creek Road, and Blacks Run. I drove the length of those roads in the area of the proposed pad and did not see any houses or structures that would be within 300' of the pad. In my opinion this site is suitable for a General Permit.

Did Applicant meet Siting Requirements? Yes

If applicable, was siting criteria waiver submitted? N/A

Directions to Facility: From I-79, take exit 119 and follow Route 50 west for 41.6 miles. Make a right onto Bunnel Run and follow for 0.5 miles. Make a left onto Lamberton Road/ Old US 50 E and follow for 3.1 miles. Turn right onto Highland road and travel 1.4 miles. Continue onto Bonds Creek for 3.1 miles and then turn right onto Bonds Creek Road. After 0.2 miles, turn left onto Co Road 6/1 and travel for approximately 1 mil. The do a slight right turn to Co Rd 6/3. The wellpad should be on the right.

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

The following table indicates which methodology was used in the emissions determination:

Emission Unit ID#	Process Equipment	Calculation Methodology (e.g. ProMax, GlyCalc, mfg. data, AP-42, etc.)
1S-TK5-8	(4) Condensate Tanks	ProMax & Tanks
2S-TK-1-4	(4) Produced Water Tanks	ProMax & Tanks
3S-ENG1	Caterpillar G3406TA	Manufacturer Data / AP-42
3S-ENG2	Gas Jack GJ320	Manufacturer Data / AP-42
4S-GPU1-12	(12) Gas Processing Units	AP-42
11S-LH	(1) Line Heater	AP-42
5S-LP	LP Separator Heater	AP-42
6S-TL1	Condensate Truck Loading	AP-42
16S-TL3	Condensate Truck Loading	AP-42
7S-TL2	Produced Water Truck Loading	AP-42
8S-COMB1	Vapor Combustor Unit	AP-42
9S-PILOT	Vapor Combustor Pilot	AP-42
12S-FLARE	Flare	AP-42
13S-PILOT	Flare Pilot	AP-42
10S-TEGEN1	Thermoelectric Generator	AP-42
10S-TEGEN2	Thermoelectric Generator	AP-42
14S-VRU	Vapor Recovery Unit	Manufacurer Data / AP-42
15S-TK9	Drip Tank	ProMax & Tanks
Fugitives	Fugitive Emissions	AP-42

The total facility PTE for the facility (excluding fugitive emissions) is shown in the following table:

Pollutant	Facility Wide PTE (tons/year)	PTE Change for Modification (tons/year)
Nitrogen Oxides	20.08	+6.55
Carbon Monoxide	50.08	+20.08
Volatile Organic Compounds	28.87	-55.13
Particulate Matter	6.80	+6.37
Particulate Matter-10/2.5	1.43	+6.37
Sulfur Dioxide	0.06	+0.01
Formaldehyde	1.10	-0.06
Total HAPs	2.22	-1.07
Carbon Dioxide Equivalent	27,712.53	+1,868.68

Maximum detailed controlled point source emissions were calculated by the applicant and checked for accuracy by the writer and are summarized in the table on the next page.

AP	PLIC,	ANT:	APPLICANT: CNX Gas Company, LLC	Company	, LLC		FACII	FACILITY NAME: Pennsboro 2	AME	Pennsbo	170 2			C70-Disco	11660	
Emission Point ID#	Z	NOx	<u> </u>	00	>	70V	Š	SO ₂	PN	PM10	4	PM _{2.5}	Mei	Methane	GHG	(OJ) OHS
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	Ib/hr	tnv	lh/hr	tax	14/4-					(CO26)
18, 28, 158.					The state of the s					thy	10/111	tpy	Ib/hr	lb/hr	lb/hr	lb/hr
TK1.9	1	1	1	1	0.59	2.58	1	1	1	ŀ	1	ł	0.04	0.19	1.09	4.77
3S-ENG1	0.61	2.67	1.22	5.33	0.68	2.96	0.00	0.01	0.04	0.17	0.04	0 17	00.0	000	02.020	
3S-ENG2	0.20	0.89	0.41	1.78	0.10	0.44	0.00	00 0	000	9				70.0	239.78	1050.25
								0.00	00.00	0.00	00.0	0.00	00.0	0.00	52.23	228.76
4S-GPU1-12	96.0	4.20	0.84	3.48	0.05	0.24	0.01	0.03	0.12	0.36	0.12	0.36	0.03	0.12	1405 44	72 55 19
11S-LH	80.0	0.35	0.07	0.29	00.00	0.02	0.00	0.00	0.01	0.03	0.01	0.03	00.0	100		
5S-LP	0.08	0.35	0.07	0.00	00.0	000							00.0	0.01	11/.12	512.98
				7:5	0.00	0.02	0.00	00.0	0.01	0.03	0.01	0.03	0.00	0.01	117.12	512.98
6S, 7S, 16S, TL1-3	1	ŀ	1	1	0.73	0.19	1	ı	1		1	;	;	;	1	1
8S, 9S, COMB1	98.0	3.75	0.72	3.15	0.00	00.0	0.01	0.00	200	0						
12S, 13S- FLARE PILOT	1.79	7.83	8.15	35.68	0.05	0.22	00 0	00.0	79.5	67:0	/0.0	0.29	0.00	0.00	1203.13	4481.29
10011									0.00	0.000	00.0	0.00	00.0	0.00	3075.82	13472.11
10S-TEGEN1-2	0.01	0.04	0.00	0.02	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00 0	7 00	24 50
Fugitives	ŀ	ł	1		:	18.17	:	1		5 97		0 60		20.0	00.7	34.30
TOTAL	4 58	20.00	11 42	50.00	100	0					71.5	00.0		30.30	:	1259.16
		20.03	64.11	30.00	17.73	78.87	0.01	90.0	0.19	08.9	0.19	1.43	80.0	50.71	6039.58	27712.53

APPLICANT: CNX Gas Company, LLC	VT: CN	X Gas Co	mpany, L	TC	FA	FACILITY NAME: Pennehore?	LY NA	ME: p	ennehoro	·			740 1	
	Forma	Formaldehyde	Ber	Renzene	E				Chinabon	7			G/0-D155C	55C
Emission Point ID#			30	IZCIIC	101	Toluene	Ethylb	Ethylbenzene	Xyl	Xylenes	He	Hexane	Tota	Total HAPs
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpv	lb/hr	thv	14/hr	11./1.
1S, 2S, 15S, TK1- 9	1	1	00.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	10/nr 0 13
3S-ENG1	0.25	1.09			-	1				Management of the state of the		A Property and a second		11.0
3S-ENG2	0.00	0.00	1	1	-					1	:	;	0.27	1.20
AS_CDIII 13		7, 144,44						:	1	1	-	;	0.00	0.00
71-1010-64	:	1	:	:	;	:	+	I	1	1	1	1	0.02	0.12
11S-LH	:	1	ı	:	1	1	ı			:				
5S-LP		:	-		-						TAXABLE DESCRIPTION OF THE PARTY OF THE PART		0.00	0.01
6S. 7S. 16S. TI.1-	-							:	-	:		;	00.0	0.01
3	1	1	1	ł	1	;	i	1	}	ſ	1	1	0.03	0.01
8S, 9S, COMB1	-					1	!					ALL PRODUCTS		
12S, 13S-FLARE, PILOT	1	;	1	1	1		:	1	1		: :	: :	1	1
10S-TEGEN1-2	-			-										
H. Constitution							;	1	:	;	;	1	0.00	0.00
r uguives	0.00	0.00	0.00	0.00	0.00	0.01	00.00	0.00	0.00	0.00	00.00	0 34	000	0.61
TOTAL	0.25	1.10	0.00	0.01	0.02	0.02	0.00	0.00	0 014	0.00	000		20.0	10.0
THE REAL PROPERTY AND THE PROPERTY AND T										10.0	0.03	0.43	1.06	2.22

REGULATORY APPLICABILITY

45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers)

The purpose of 45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers) is to establish emission limitations for smoke and particulate matter which are discharged from fuel burning units.

45CSR2 states that any fuel burning unit that has a heat input under ten (10) MMBTU/hr is exempt from Sections 4 (weight emission standard), 5 (control of fugitive particulate matter), 6 (registration), 8 (testing, monitoring, recordkeeping, reporting) and 9 (startups, shutdowns, malfunctions). However, failure to attain acceptable air quality in parts of some urban areas may require the mandatory control of these sources at a later date. If the individual heat input of all of the proposed fuel burning units are below 10 MMBTU/hr, these units are exempt from the aforementioned sections of 45CSR2. However, the registrant would be subject to the opacity requirements in 45CSR2, which is 10% opacity based on a six minute block average. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
4S-GPU1-12	(12) Gas Processing Units	1.00 Each
11S-LH	(1) Line Heater	1.00
5S-LP	(1) LP Separator Heater	1.00

45CSR6 (To Prevent and Control Air Pollution from the Combustion of Refuse)

45CSR6 prohibits open burning, establishes emission limitations for particulate matter, and establishes opacity requirements. Sources subject to 45CSR6 include completion combustion devices, enclosed combustion devices, and flares.

The facility-wide requirements of the general permit include the open burning limitations $\S\S45-6-3.1$ and 3.2.

All completion combustion devices, enclosed combustion devices, and flares are subject to the particulate matter weight emission standard set forth in \$45-6-4.1; the opacity requirements in \$45-6-4-3 and 4-4; the visible emission standard in \$45-6-4.5; the odor standard in \$45-6-4.6; and, the testing standard in \$45-6-7.1 and 7.2.

Enclosed combustion control devices and flares that are used to comply with emission standards of NSPS, Subpart OOOO are subject to design, operational, performance, recordkeeping and reporting requirements of the NSPS regulation that meet or exceed the requirements of 45CSR6.

Emission Unit ID#	Maximum Design Heat Input (MDHI) (MMBTU/hr)	Subject to Weight Emission Standard?	Control Efficiency Claimed by Registrant	Provide Justification how 45CSR6 is met.
8S-COMB1	8.69	⊠ Yes □ No	98	Assuming 20,000 BTU/lb, the allowable PM emissions are 1.18 lb/hr. Using AP-42, the PM emissions were calculated to be 0.07 lb/hr.
12S-FLARE	26.20	⊠ Yes □ No	98	Assuming 20,000 BTU/lb, the allowable PM emissions are 3.61 lb/hr. Using AP-42, the PM emissions were calculated to be <0.01 lb/hr.

45CSR10 (To Prevent and Control Air Pollution from the Emission of Sulfur Oxides)

45 CSR10 establishes emission limitations for SO_2 emissions which are discharged from stacks of fuel burning units. A "fuel burning unit" means and includes any furnace, boiler apparatus, device, mechanism, stack or structure used in the process of burning fuel or other combustible material for the primary purpose of producing heat or power by indirect heat transfer. Sources that meet the definition of "Fuel Burning Units" per 45 CSR10-2.8 include GPUs, inline heaters, heater treaters, and glycol dehydration unit reboilers.

Fuel burning units less than 10 MMBtu/hr are exempt. The sulfur dioxide emission standard set forth in 45CSR10 is generally less stringent than the potential emissions from a fuel burning unit for natural gas. The SO_2 emissions from a fuel burning unit will be listed in the G70-D permit registration at the discretion of the permit engineer on a case-by-case basis. Issues such as non-attainment designation, fuel use, and amount of sulfur dioxide emissions will be factors used in this determination. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Fuel burning units burning natural gas are exempt from Section 8 (Monitoring, Recording and Reporting) as well as interpretive rule 10A. The G70-D eligibility requirements exclude from eligibility any fuel burning unit that does not use natural gas as the fuel; therefore, there are no permit conditions for 45CSR10.

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
4S-GPU1-12	(12) Gas Processing Units	1.00 Each
11S-LH	(1) Line Heater	1.00
5S-LP	(1) LP Separator Heater	1.00

45CSR13 (Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, and Procedures for Evaluation)

45CSR13 applies to this source due to the fact that the applicant is defined as a "stationary source" under 45CSR13 Section 2.24.b. Stationary source means, for the purpose of this rule, any building, structure, facility, installation, or emission unit or combination thereof, excluding any emission unit which meets or falls below the criteria delineated in Table 45-13B which: (a) is subject to any substantive requirement of an emission control rule promulgated by the Secretary; (b) discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant; (c) discharges or has the potential to discharge more than two (2) pounds per hour or five (5) tons per year of hazardous air pollutants considered on an aggregated basis; (d) discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts shown in Table 45-13A or greater; or, (e) an owner or operator voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even though not otherwise required to do so. 45CSR13 has an original effective date of June 1, 1974.

The applicant meets the definition of a stationary source because (check all that apply):

Discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per yet has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant. Discharges or has the potential to discharge more than two (2) pounds per hour or five (5) tons per yet hazardous air pollutants considered on an aggregated basis. Discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts in Table 45-13A or greater.	ar, or
Discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts in Table 45-13A or greater.	
m rable 45-15A of greater.	
Voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even the not otherwise required to do so.	

General Permit G70-D Registration satisfies the construction, modification, relocation and operating permit requirements of 45CSR13. General Permit G70-D sets forth reasonable conditions that enable eligible registrants to establish enforceable permit limits.

Section 5 of 45CSR13 provides the permit application and reporting requirements for construction of and modifications to stationary sources. No person shall cause, suffer, allow or permit the construction, modification, relocation and operation of any stationary source to be commenced without notifying the Secretary of such intent and obtaining a permit to construct, modify, relocate and operate the stationary source as required in the rule or any other applicable rule promulgated by the Secretary.

If applicable, the applicant meets the following (check all that apply):
Construction Modification Class I Administrative Update (45CSR13 Section 4.2.a) Class II Administrative Update (45CSR13 Section 4.2.b)
45CSR16 (Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60)
45CSR16 applies to all registrants that are subject to any of the NSPS requirements described in more detail in the Federal Regulations section. Applicable requirements of NSPS, Subparts IIII, JJJJ and OOOO are included in General Permit G70-D.
The applicant is subject to:
40CFR60 Subpart IIII
40CFR60 Subpart IIII 40CFR60 Subpart JJJJ 40CFR60 Subpart OOOO 40CFR60 Subpart OOOOa
40CFR60 Subpart OOOO
40CFR60 Subpart OOOOa
45CSR22 (Air Quality Management Fee Program)

45CSR22 (Air Quality Management Fee Program)

45CSR22 is the program to collect fees for certificates to operate and for permits to construct or modify sources of air pollution. 45CSR22 applies to all registrants. The general permit fee of \$500 is defined in 45CSR13. In addition to the application fee, all applicants subject to NSPS requirements or NESHAP requirements shall pay additional fees of \$1,000 and \$2,500, respectively.

Registrants are also required to obtain and have in effect a valid certificate to operate in accordance with 45CSR22 §4.1. The fee group for General Permit G70-D is 9M (all other sources) with an annual operating fee of \$200.

40CFR60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)

Subpart IIII sets forth non-methane hydrocarbon (NMHC), hydrocarbon (HC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM) emission limits, fuel requirements, installation requirements, and monitoring requirements based on the year of installation of the subject internal combustion engine. The provisions for stationary compression ignition (CI) internal combustion engines for owners or operators of this Subpart have been included in General Permit G70-D, Section 13. The following CI engines are subject to this section:

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	Provide Justification how 40CFR60 Subpart IIII is met.
N/A				☐ Met Emission Standard ☐ Certified Engine

40CFR60 Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)

Subpart JJJJ sets forth nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compound (VOC) emission limits, fuel requirements, installation requirements, and monitoring requirements based on the year of installation of the subject internal combustion engine. The provisions for stationary spark ignition (SI) internal combustion engines for owners or operators of this Subpart have been included in General Permit G70-D, Section 13.

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	Provide Justification how 40CFR60 Subpart JJJJ is met.
3S-ENG2	Gas Jack GJ230	46	6/13/07	

40CFR60, Subpart OOOO (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions from affected facilities that commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015. The affected sources which commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015 are subject to the applicable provisions of this Subpart as described below:

Gas well affected facilities are included in General.	Permit G70-D	in Section 5.0.
Are there any applicable gas well affected facilities?		□No
If Yes, list.		

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOO?
047-085-10055	4/3/15	1/22/15	Green	Yes
047-085-10069	4/13/15	1/11/15	Green	Yes
047-085-10070	4/21/15	12/29/14	Green	Yes
047-085-10071	4/17/15	11/17/14	Green	Yes
047-085-10072	4/3/15	11/24/14	Green	Yes
047-085-10076	4/13/15	12/21/14	Green	Yes
047-085-10066	4/12/15	11/28/14	Green	Yes

Centrifugal compressor affected facilities are not subject. Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals that is located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Reciprocating compressor affected facilities are not subject. Each reciprocating compressor affected facility, which is a single reciprocating compressor located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic conta	rollers affected facilities are applicable pneumatic con	e included in Gen troller affected	eral Permit G70-D, Sect facilities? Tyes	<i>ion 10.0.</i> ⊠ No
transmission and	as production segment (betweet storage segment and not inwhich is a single continuous eater than 6 scfh.	cluding natural ga	s processing plants) each	nneumatic controller
Determination of Are there any a If No, list any e OOOO.	r storage vessel affected fact factorage vessel affected fact pplicable storage vessel semission reduction devices ustor, 8.69 MMBtu/hr, 9	cility status is inclused in the state of th	s? Yes N Ficiencies used to avoi	eneral Permit G70-D. o id 40CFR60 Subpart
Emission Unit ID#	Storage Vessel Description	SV Size (gal)		ion how 40CFR60 OOO is met.
N/A				
Each storage vess	el affected facility, which is	a single storage v	essel located in the oil an	nd natural gas production

Each storage vessel affected facility, which is a single storage vessel located in the oil and natural gas production segment, natural gas processing segment or natural gas transmission and storage segment, and has the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section by October 15, 2013 for Group 1 storage vessels and by April 15, 2014, or 30 days after startup (whichever is later) for Group 2 storage vessels. A storage vessel affected facility that subsequently has its potential for VOC emissions decrease to less than 6 tpy shall remain an affected facility under this subpart.

40CFR60, Subpart OOOOa (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOOa establishes emission standards and compliance schedules for the control of the pollutant greenhouse gases (GHG). The greenhouse gas standard in this subpart is in the form of a limitation on emissions of methane from affected facilities in the crude oil and natural gas source category that commence construction, modification or reconstruction after September 18, 2015. This subpart also establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions from affected facilities that commence construction, modification or reconstruction after September 18, 2015. The effective date of this rule is August 2, 2016.

For each well site, the registrant must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with fugitive emissions monitoring as required in §60.5397a and the alternative means of emission limitations in §60.5398a.

Gas well affected facilities are included in General Permit G70-D	in Section 5.0.
Are there any applicable gas well affected facilities? X Yes	No
If Yes, list.	_

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOOa?
047-085-10067	5/1/17	5/15/17	Green	Yes
047-085-10068	5/1/17	5/15/17	Green	Yes
047-085-10073	5/1/17	5/15/17	Green	Yes
047-085-10074	5/1/17	5/15/17	Green	Yes
047-085-10075	5/1/17	5/15/17	Green	Yes

Centrifugal compressor affected facilities are not subject. Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals that is located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Reciprocating compressor affected facilities are not subject. Each reciprocating compressor affected facility, which is a single reciprocating compressor located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic controllers affected facilities are included in General Permit G70-D, Section	on 10.0.
Are there any applicable pneumatic controller affected facilities? Yes	No

Each pneumatic controller affected facility not located at a natural gas processing plant, which is a single continuous bleed natural gas-driven pneumatic controller operating at a natural gas bleed rate greater than 6 scfh.

Requirements for storage vessel affected facilities are included in General Permit G70-D, Section 7.0.
Are there any applicable storage vessel affected facilities? Yes No
If No, list any emission reduction devices and control efficiencies used to avoid 40CFR60 Subpart
0000.

Enclosed Combustor, 8.69 MMBtu/hr, 98% Control; Flare 26.20 MMBtu/hr, 98% control

If Yes, list.

Emission	Storage Vessel Description	SV Size	Provide Justification how 40CFR60
Unit ID#		(gal)	Subpart OOOO is met.
N/A			

Each storage vessel affected facility, which is a single storage vessel with the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section.

Fugitive Emissions GHG and VOC Standards affected facilities are included in General Permit G70- D in Section 12.0.
Did the registrant commence construction, modification, or reconstruction of the well site after September 18, 2015 and is subject to §60.5397a? Yes No
For the purposes of §60.5397a, a "modification" to a well site occurs when a new well is drilled at an existing well site, a well at an existing well site is hydraulically fractured, or a well at an existing well site is hydraulically refractured.
A well site that only contains one or more wellheads is not an affected facility under this subpart. The affected facility status of a separate tank battery surface site has no effect on the affected facility status of a well site that only contains one or more wellheads.
Requirements for pneumatic pump affected facilities are included in General Permit G70-D, Section 16.0. Are there any applicable pneumatic pump affected facilities at the well site? Yes No If Yes, list.
Pneumatic Pump Description (Make, Model)
N/A
Each pneumatic pump affected facility at the well site, which is a single natural gas-driven diaphragm pump. A single natural gas-driven diaphragm pump that is in operation less than 90 days per calendar year is not an affected facility under this subpart as well as the required records are kept.
40CFR63 Subpart HH (National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities)
This Subpart applies to owners and operators of each triethylene glycol (TEG) dehydration unit that are located at oil and natural gas production facilities. Only areas source requirements are included in General Permit G70-D, as defined in §63.761.
For area source applicability, the affected source includes each trietheylene glycol (TEG) dehydration unit located at a facility that meets the criteria specified in §63.760(a).
Glycol dehydration unit(s) are included in General Permit G70-D, Section 15.0.
Are there any TEG dehydration unit(s) at this facility? Yes No
Are the TEG dehydration unit(s) located within an Urbanized Area (UA) or Urban Cluster (UC)? Yes No
Are the glycol dehydration unit(s) exempt from 40CFR63 Section 764(d)? Yes

If Yes, answ	wer the following que	estions:			
The actual a thousand stathis Subpart	andard cubic meters p	oer day, as	ral gas to the gly determined by the	col dehydration he procedures s	n unit(s) is less than 85 specified in §63.772(b)(1) of
atmosphere	average emissions of are less than 0.90 me §63.772(b)(2) of this	egagram pe	er year (1 ton per	hydration unit year), as deter No	process vent(s) to the mined by the procedures
40CFR63 Su Reciprocatin	bpart ZZZZ (Nationa g Internal Combustion	l Emission n Engines)	Standards for Ha	zardous Air Pol	lutants for Stationary
emitted from emissions. The emission limit Subpart ZZZZ	stationary reciprocating his Subpart also establis tations and operating ling that were issued on Ja Q has delegation of the a	internal co shes require mitations. I nuary 15, 2 area source	ombustion engines (ments to demonstra This section reflects 013 and published air toxics provision	(RICE) located at ate initial and core EPA's final amoin the Federal Research of this Subpart	r hazardous air pollutants (HAP) t major and area sources of HAP at inuous compliance with the endments to 40 CFR part 63, egister on January 30, 2013. Trequiring Generally Achievable this general permit under
Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	New or Existing under 40CFR63 Subpart ZZZZ?	Provide Justification how 40CFR63 Subpart ZZZZ is met.
3S-ENG1	Caterpillar G3406TA	276	Before 6/12/06	Existing	Applicable ZZZZ
3S-ENG2	Gas Jack GJ230	46	6/13/07	New	
	Gas Jack GJ230	46	6/13/07	ZZZZ? Existing New	Requirements JJJJ

SOURCE AGGREGATION DETERMINATION
"Building, structure, facility, or installation" is defined as all the pollutant emitting activities which belong to the same industrial grouping, are located on one or more contiguous and adjacent properties, and are under the control of the same person.
Is there equipment and/or activities used for onshore oil and natural gas production that are located on the same site, or on sites that share equipment and are within ½ mile of each other? Yes No
Is this equipment and/or activities under "common control"? Yes No
Do these facilities share the same two (2) digit SIC code? Yes No
Final Source Aggregation Decision. Source not aggregated with any other source. Source aggregated with another source. List Company/Facility Name:
RECOMMENDATION TO DIRECTOR
The information provided in the permit application, including all supplemental information received, indicates the applicant meets all the requirements of applicable regulations and the applicant has shown they meet the eligibility requirements of General Permit G70-D. Therefore, impact on the surrounding area should be minimized and it is recommended that the facility should be granted registration under General Permit G70-D.
Permit Engineer Signature: Name and Title: Roy F. Kees P.E Engineer, NSR Permitting
Date: April 10, 2017